

4K/UHD KVM Extenders (4K@60, 4:4:4) with POE



KVM-SET-17 USER MANUAL v.2

Overview

KVM-SET-17 can extend HDMI 2.0 UHD computer signals up to 100 meters with USB 2.0 over a single CAT6 cable.

Package Contents

- 1 x KVM-1-UHD-Tx-POE (Transmitter)
- 1 x KVM-1-UHD-Rx-POE (Receiver)
- 1 x Power adapter DC48V with lock +2 x mounting plates

Features

- Supports 4K@60Hz(4:4:4)
- Supports 1080P@120Hz
- Supports HDCP 1.4/2.2/2.3
- HDMI loop through
- Extends HDMI 2.0 signals up to 100 meters
- Supports POE
- Supports USB 2.0
- Supports 3D and CEC pass-through
- Supports bi-directional RS-232
- Supports all frequency IR control
- Supports LPCM, Dolby True HD and Dobyly Digital audio

Specifications

Function	KVM-1-UHD-Tx-POE	KVM-1-UHD-Rx-POE
HDMI In Connectors	1 x HDMI Type A Female	
HDMI Out Connectors	1 x HDMI Type A Female	1 x HDMI Type A Female
RJ45 Connectors	1 x RJ45 for HDBaseT	
USB	USB B x1, USB A x 2	USB-A-Type Female x 2
SPDIF Input		Toslink Jack x 1
SPDIF Output	Toslink Jack x 1	
RS-232 Connectors	DB9 female	
IR In/Out	3.5φ Stereo Jack x 1	
Audio In/Out	3.5φ Stereo Jack x 1	
DIP SW	3 Pin x 1	
LED	4 in 1 LED x 1	
DC Jack	48V	
Max Resolution	4K60Hz	
Max Distance	100 meters	
Weight	415g	405g
Dimensions (LxWxH)	152 x 115 x 20 mm	

FRONT VIEW (Transmitter)



- 1. USB 2.0 (USB Device)
- 2. USB 2.0 (USB Host)
- 3. SPDIF Out
- 4. Rs232
- 5. IR out (IR blaster)
- 6. IR In (IR receiver)
- 7. DIP Switch
 - Pin 1 – OFF: DEFAULT
ON: FW upgrade mode
 - Pin 2 - Reserved
 - Pin 3 - OFF: HDBT Mode
ON: Long Reach Mode
- 8. POWER / VIDEO / LINK / MODE LED

FRONT VIEW (Receiver)



- 1. USB 2.0 (USB Device)
- 2. SPDIF Out
- 3. Rs232
- 4. IR out (IR blaster)
- 5. IR In (IR receiver)
- 6. DIP Switch
 - Pin 1 – OFF: DEFAULT
ON: FW upgrade mode
 - Pin 2 - Reserved
 - Pin 3 - OFF: HDBT Mode
ON: Long Reach Mode
- 7. POWER / VIDEO / LINK / MODE LED

REAR VIEW (Transmitter)



- 1. Power 48V DC
- 2. LINK Out (RJ-45 Connector)
- 3. HDMI In / Out
- 4. Audio In

REAR VIEW (Receiver)



- 1. LINK In (RJ-45 Connector)
- 2. HDMI Out
- 3. Audio Out
- 4. Audio In

Installation

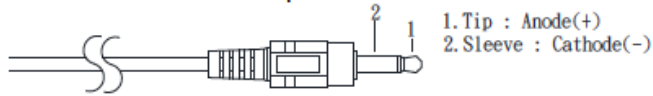
- 1. Turn off source and display
- 2. Connect the HDMI cable between the source and the transmitter
- 3. Connect the HDMI cable between the display and the receiver
- 4. Connect the LAN (RJ45) cable between the transmitter and receiver
- 5. Connect mouse and keyboard
- 6. Connect the CAT cable between transmitter and receiver
- 7. Connect the power to both transmitter and receiver
- 8. Power on the source and display

Cable Length Specification

Cable Type	Mega-characters per second, per channel (Mcsc)	HDBaseT Link Rate	Max Video resolution	Range - Typical
CAT6a(U/FTP)	450 <Mcsc <=594	16Gbps	4K/60Hz/4:4:4 video formats	100 meters (straight) 70 meters (with patches)
	<=450	12Gbps	4K/60Hz/4:2:0 HDR 12bit video	100 meters (with patches)
CAT5e/CAT6 (UTP)	450 <Mcsc <=594	16Gbps	4K/60Hz/4:4:4 video formats	40 meters (straight) 30 meters (with patches)
	<=450	12Gbps	4K/60Hz/4:2:0 HDR 12bit video	70 meters (with patches)

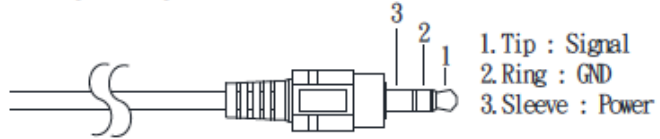
IR Blaster Cable:

Connect the IR blaster cable to <IR OUT> port



IR Receiver Cable:

Connect the IR blaster cable to <IR OUT> port



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